



# HUNTSVILLE

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**REDSTONE GATEWAY, PACKAGE 1F REDSTONE GATEWAY  
EXTENSION, MARKET STREET AND OVERLOOK ROAD  
RELOCATION**

**Project No. 65-11-SP22  
October 11, 2011**

**Addendum #4**

The attached pre-bid meeting minutes, all addenda, and attachments for the above- referenced project will become part of the contract documents.

**Additional Questions from Contractors:**

1. Q. When does storm work in area 1 added by Addendum #2 have to be complete?  
A. See revised Attachment "A" included in Addenda #4.
2. Q. Due to the additional work added on the "B" Drawings, specifically culverts, last week and the fact that we have yet to receive a design on the 13MP communications line are there any additional days added to the overall schedule or to the bid date at this time?  
A. No.
3. Q. Can we get the engineer to issue some exact technical procedures for waterproofing that needs to be priced up for both the cast in place and precast box culverts?  
A. The cast-in-place concrete box culverts should not have any weep holes cast in the top or sides with any form work holes being patched/plugged with a waterproof epoxy. The pre-cast box culverts shall have tongue and groove joints lined with a double run of mastic and the inside pipe joint shall be sealed with a non-shrink grout capable of withstanding 15' of head and scour resistant.

**The Star of Alabama**

4. Q. If a pre-cast box culvert is chosen, how is the area under the pre-cast box culvert to be set since gravel cannot be used around the area near to ponds? Also how would waterproofing be handled on the bottom slab at each joint?

A. See question #3 above for joint sealant. Any pipe entering the pond whether pre-cast or cast-in-place shall have the clay plug and anti-seep collar as shown on sheet C14.5.

5. Q. Are weep holes to be omitted in the top slab in the middle of each barrel for all box culverts, or are side weep hole to be omitted only?

A. All weep holes (top and sides) shall be omitted from the box culvert installation and ALDOT general notes.

6. Q. Due to some of the depths of the box culvert, the excavation will have to be slope to meet OSHA requirements. The detail for the anti-seep collar shows going back to the excavated line (which is vertical). Thus, if we slope/bench our excavation, will the anti-seep collar have to extend to this point or can we backfill with clay to install per the detail?

A. The anti-seep collar shall extend beyond the excavation line as indicated on the detail regardless is the trench excavation sidewall is vertical or sloping.

7. Q. Unless I have missed something, I still have not seen the detail for the CD 8x8 box culvert. Will one be available for us to review prior to bid?

A. See sheet C14.10 in the original bid drawings dated September 15, 2011.

8. Q. The response to Question 17, in addendum #2 says that we are to include storm lines S-1, S-2, & S-3. Further stating that we are to include lines U, V, W, and X. However, this response says that line S-4 to S-5 is part of package B. Does this mean Lines S4 and S5 are to be excluded from the 1F-1 scope? Or, was it intended to designate only line S5 from Structure 4S to 5S?

A. Yes, Lines S-4 and S-5 as well as structures #4S and #5S are excluded from the Package 1F-1 work. Note that structure #3S it to be included in the 1F-1 scope of work.

9. Q. On the Instructions to bidders, Package 1F-1, page 6, (4th bullet from bottom) says to include the Installation of Redstone Arsenal water main relocations as identified on sheets C11.0 to C11.4.

I find on sheets C11.1, C11.2 and C11.3 locations of water main stub outs and fire hydrants, but they are noted as "For Reference Only". There is nothing indicating Water Line on Sheet C11.4. However, I do find what appears to be a proposed Redstone Arsenal Water Line, depicted as "RSA WTR" on plan sheets C11.2 and C11.3. This line begins at N1527131.94, E402311.58 on plan sheet 11.2 and ends at N1527156.75, E404028.16 on plan sheet 11.3. Is this the extent of water line to be installed in package 1F-1?

A. Yes. The coordinates provided denote the limits of the 12" Redstone Arsenal water main relocation. No water main is shown on sheet C11.4.

10. Q. Will the City of Huntsville be supplying water materials for the Redstone Arsenal Water Line?

A. No, the contractor shall supply all pipe material, fittings, backfill, etc. as a part of their base

bid pricing.

11. Q. Please review the specifications on C14.4 (pg. 29 Details) Type A Silt Fence. Our suppliers are having problems making the components work together. Fabric per the Alabama Erosion Control Handbook Table SB-1 is a 36" monofilament fabric with the following properties:

- \* Tensile Warp 260lbs.
- \* Tensile Fill 100lbs.
- \* Elongation % Max 40%
- \* AOS Max Sieve .30
- \* Flow Rate 70 gpm/ft2
- \* UV 80%
- \* Burst 175 psi

The DOT (Alabama) wire is 39"x330'; 14.5ga with a vertical spacing of 6" and a maximum horizontal spacing of 12". The plan wire specification diagram front view is 30" and side view is 36". Wire is actually produced in 39" or 32" heights. 4' minimum steel post (1.33 lb/ft). Can the following ALDOT approved silt fence components be used for this project? If not, can the silt fence wire for the project be a 32"x330' 14.5ga (12" spacing) so it will work with the 36" fabric and 4' post?

- \* Geotex 351 5'x330' Fabric
- \* 39"x330' 14.5ga (12" spacing) Wire
- \* 5' Steel Post
- \* Clips
- \* Rings

A. The Silt Fence - Type A detail shown on Sheet C14.4 states that the woven wire fence must meet DOT requirements. A minimum of 12" of the woven wire fence is buried with a minimum of 24" being above grade. Therefore, the 39" tall woven wire fence shall be used.

12. Q. Storm Line "V", Plan Sheet C6.0 issued with addendum No. 2 calls for Structures No; 3V, 4V, 5V, 6V, 7V, 8V and 9V to be curb inlet boxes, (with Temporary Yard Inlet Tops). This implies that these structures will connect storm lines that either traverse or parallels a roadway, thus requiring stone backfill to subgrade to comply with installation in "improved areas". This Line "V" layout, (Plan Sheet C6.0, Addendum 2) correlates to the layout shown on plan sheet C9.2 of package 1-F1 and verifies that storm line segment "V-3" will pass under a roadway. However, there are no indications of where, or how the future roadways will impact the other curb inlets shown on Plan Sheet C6.0, Addendum 2. Please clarify as to which of these lines added by addendum two will require stone backfill to subgrade.

A. All storm lines (V, W, and X) issued in Addendum #2 shall be backfilled per the traffic area requirement noted on DR-166 Typical Storm Sewer Pipe Bedding Detail found on Sheet C14.3 as they will all fall within future paved areas.

13. Q. Will the excess topsoil be stockpiled at the current location (west of the Redstone Gateway limits) that the 1A-5 contractor is using?

A. Refer to Exhibit #2 in the project specifications for topsoil waste area location.

14. Q. We cannot find an ALDOT spec for the wild flower mix. Can you supply?  
A. Wild flower seed mix is included in Addendum #3.
15. Q. Do we need to include a copy of bid on a disk?  
A. No.
16. Q. How many conductors are there to be on the I3MP relocated line?  
A. The copper OSP cable shall be 100 pairs.
17. Q. What size are the conductors are there to be on the I3MP relocated line?  
A. The pairs on the copper OSP cable shall be 24 gauge.
18. Q. How many fiber optic cables are there to be the I3MP relocated line?  
A. There will be two different sections of fiber optic cable. One will be 96 strand and the other will be 48 strand.
19. Q. How many modes, multi or single, are the fiber optic cables to be on the I3MP relocated line?  
A. Both of the fiber optic cables are to be single mode.
20. Q. What type material, wood or concrete, are the poles to be on the I3MP/Power relocated line?  
A. Wood.
21. Q. What is the burial depth to be for any buried/underground communications cables on the I3MP relocated line?  
A. The buried/underground cables shall have 24" of cover as measured from the top of conduit to finish grade.
22. Q. What size and height are the poles to be on the I3MP/Power relocated line?  
A. 45' minimum pole height above grade with a minimum embedment of 10% of the pole height plus 2'.
23. Q. Are there any specifications beyond what has been mentioned above in this addendum for the new wood poles for the I3MP relocated line?  
A. See Q & A #20 and #22 above in this addendum.
24. Q. What are the specifications for the relocated overhead power line?

A. The new line shall meet the requirements of RSA, TVPPA (15kV), NESC, and NEC. The line size shall be equal to the existing line size and capacity.

25. Q. Please provide a materials list for the I3MP "hot cut" tie-in work that will be furnished by the vendor referenced in Addendum #2 Q & A #13.

A. See attached I3MP materials list.

**Attachments: 13MP "Hot Cut" Tie-In Materials List  
Attachment "A"**

**END OF ADDENDUM #4**



# 13MP "Hot Cut" Tie-In Materials List

## SPECIAL PROJECT - SCA OT WAGES

Material Description		Part Number	Unit Issue	Qty	Unit Cost	Extended Cost	Unit Price to Customer	Extended Price to Customer
Superior Essex BKMA 100-24...per 1000 feet		20-104-42	1	10				
3/8" EHS Suspension Strand		3/8EHS-A-7W-5000-R-BAT	ea	1				
7/16" EHS Suspension Strand		7/16EHS-A-7W-5000-R-BAT	ea	2				
5/8x16 machine bolt... 100 per box		J8816	ea	1				
5/8 x14 machine bolt... 100 per box		J8814	ea	1				
5/8x12 machine bolt... 100 per box		J8812	ea	1				
5/8 curved washer...100 per box		681012	ea	1				
3/8 Strandwise.....Reliable		5202	ea	15				
5/16 Strandwise.....Reliable		5201	ea	8				
Preformed Guy Grip 3/8"		GDE-2107	ea	15				
Preformed Guy Grip 5/16"		GDE-2104	ea	15				
Guy Guard, Yellow Plastic 7 foot		84FRPMYEL	ea	15				
Thimbleye Bolt 5/8x16... 100 per box		5016	ea	1				
Suspension Clamp...100 per box		J7901	ea	1				
3/4"x5 foot Screw In Anchor		J6526WCA	ea	15				
5/8" Square Nut.... 100 per box		J8563	ea	2				
Lashing Wire...6 rolls per box		71533	ea	5				
Lashing Wire Clamp... 100 per box		81460	ea	1				
Guy Hook		5004	ea	15				
Thimbleye Nut... 100 per box		J6510	ea	1				
Tyco Trac A Closure...per 10		401139-000	ea	1				
Tyco Trac B Closure		147017-000	ea	1				
Tyco Trac B+...per 2		236827-000	ea	1				
Corning Fiber Splice Closure W/Trays		SCF-6C22-01-72	ea	2				
48 Strand OSP Single Mode...per 1000 feet		S-OP-48-LT-A-4-BK-SIC-	ea	5				
96 Strand OSP Single Mode ....per 1000 feet		S-OP-96-LT-A-4-BK-SIC-5	ea	5				
#6 Bare Copper Wire....per 315 foot roll			ea	1				
MARK1 Bonding Clamp...per box of 50			ea	1				
Corning Fiber Splice Closure W/Trays		SCF-6C22-01-144	ea	1				
4" Schedule 40 PVC.....per 10 foot section			ea	20				
4" Schedule 40 PVC Sweep			ea	2				
Detectable Warning Tape...Fiber Optic...1000' roll			ea	1				

**ATTACHMENT "A" to Proposal  
REDSTONE GATEWAY PACKAGE 1F  
PROJECT #65-11-SP22**

**Schedule Milestone Dates  
(Calendar Days from Anticipated General Notice to Proceed Date)**

<b><u>Responsibility</u></b>	<b><u>Construction Activity</u></b>	<b><u>Days from NTP to Milestone Completion</u></b>
<b>Package 1F-1</b>	<b>Anticipated General Notice to Proceed (NTP) Complete Flex Storm Sewer (Structures #1S-#3S) Finish Area 1 (Building Pads, Grading, Storm Sewer, and Sanitary per Area 1 Exhibit) Complete Retail Culvert (Lines W, V, and X) Finish Storm Drainage Finish Paving Balance of Site</b>	<b>10/31/2011 20 days ** 80 days**  80 days ** 154 days ** 275 days**</b>
<b>Package 1F-2</b>	<b>Anticipated General Notice to Proceed (NTP) Finish Water System <u>(Future Bid Package)</u></b>	<b>2/13/2012 40 days**</b>
<b>Package 1F-3</b>	<b>Anticipated General Notice to Proceed (NTP) Finish Communications and Electrical System <u>(Future Bid Package)</u></b>	<b>3/5/2012 54 days**</b>
<b>Package 1F-4</b>	<b>Anticipated General Notice to Proceed (NTP) Finish Landscape, Irrigation, and Hardscape <u>(Future Bid Package)</u></b>	<b>6/11/2012 90 days**</b>

**Legend**

1F-1 - Fine Grading, Erosion Control, Storm, Curb, and Paving  
1F-2 - Water System  
1F-3 - Primary Communication & Primary Electrical  
1F-4 - Landscape, Irrigation, and Hardscape

**\*\* - LIQUIDATED DAMAGES WILL BE APPLIED**

**Notes:**

- 1. If NTP dates are delayed through no fault of the contractor, NTP dates will be adjusted accordingly.**
- 2. Packages 1F-2, 1F-3, and 1F-4 notice to proceed dates are listed for information only.**